

Figure 1

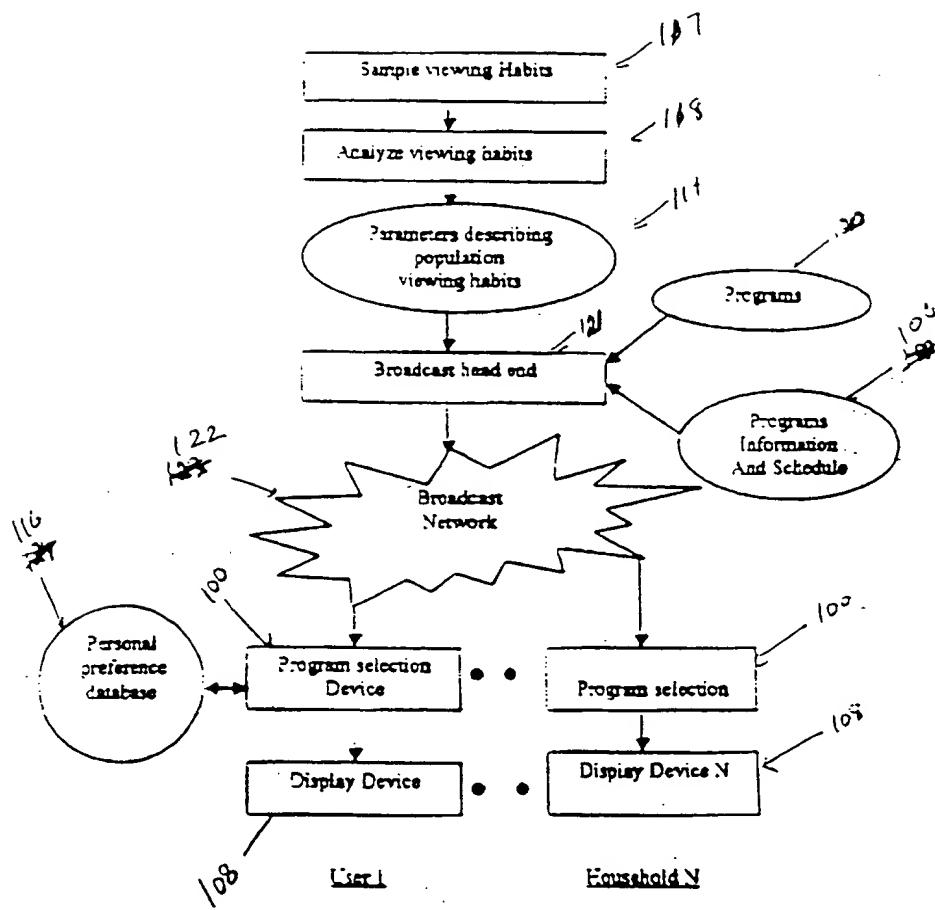


Figure 2



Examples of Program Information

<p>Title = Seinfeld Program Type = Sitcom Category = Comedy Actors = (Actor1 , Actor2)</p>	<p>Title = US Debt Report Program Type = News article Category = US Govt. Financial People Mentioned = (Bill Clinton, Alan Greenspan)</p>
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Example 1

Example 2

124

125

Figure 3

Examples for traits

Movie
Adventure
Sports
Mad About You
dynamic trait 1
Dynamic trait 2
NBC NEWS
FRIDAY Movie
Premier Mad About You

Examples for Liking for viewer

Movie = 14
Adventure = 5
Sports = 0.3
Mad About You = 5
dynamic trait 1 = 3
Dynamic trait 2 = 5
NBC NEWS = 13
FRIDAY Movie = 18
Premier Mad About You = 15

126

127

Figure 4

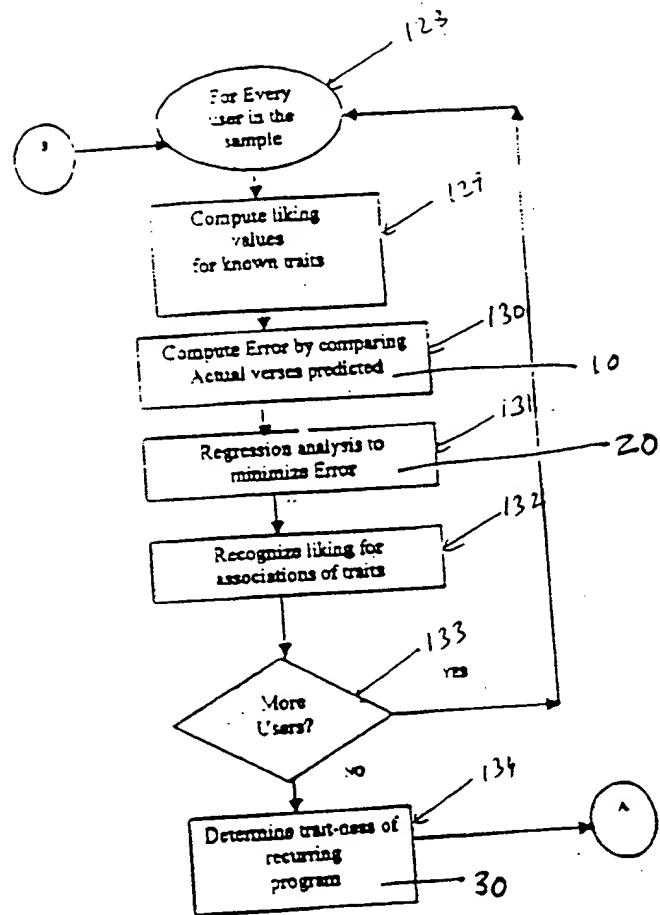


Figure 5.(a)

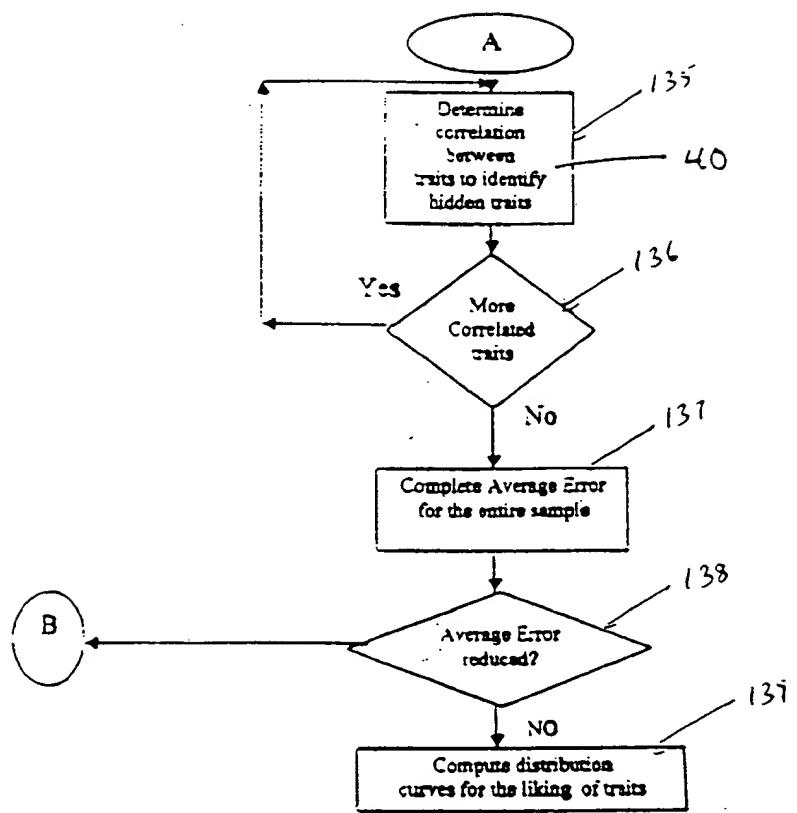
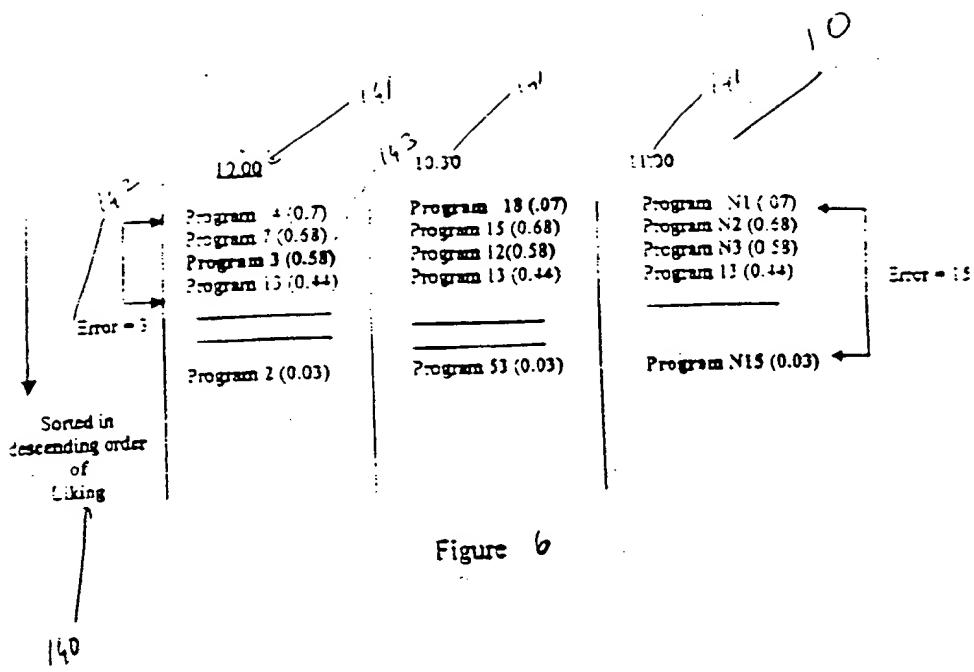


Figure 5 (b)



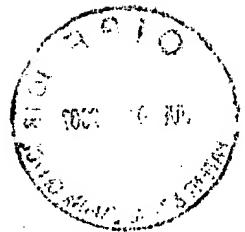


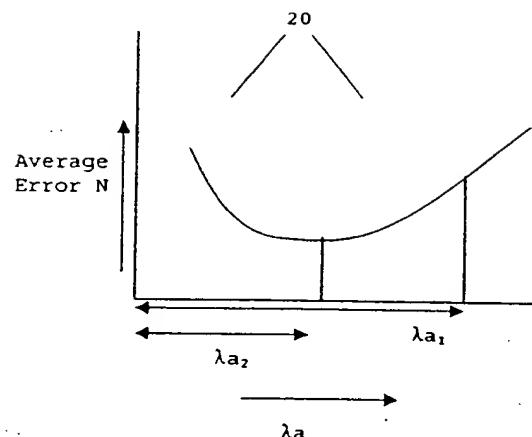
Figure 7

Current Liking Value

$\lambda a_1 = 2$
 $\lambda b_1 = 5$
 $\lambda c_1 = -3$
 $\lambda d_1 = 0$

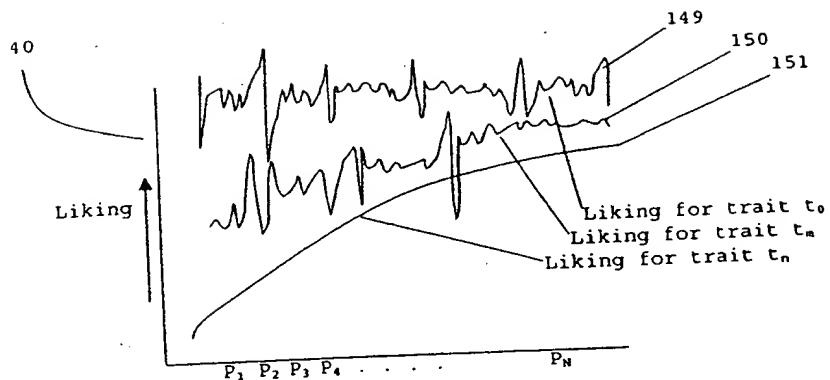
Next Liking Value

$\lambda a_2 = 1.5$
 $\lambda a_1 = 5$
 $\lambda a_1 = -3$
 $\lambda a_1 = 0$



$\lambda b = \lambda b_1$
 $\lambda c = \lambda c_1$
 $\lambda d = \lambda d_1$

Figure 8



Computing Traitness of a trait is a program 30

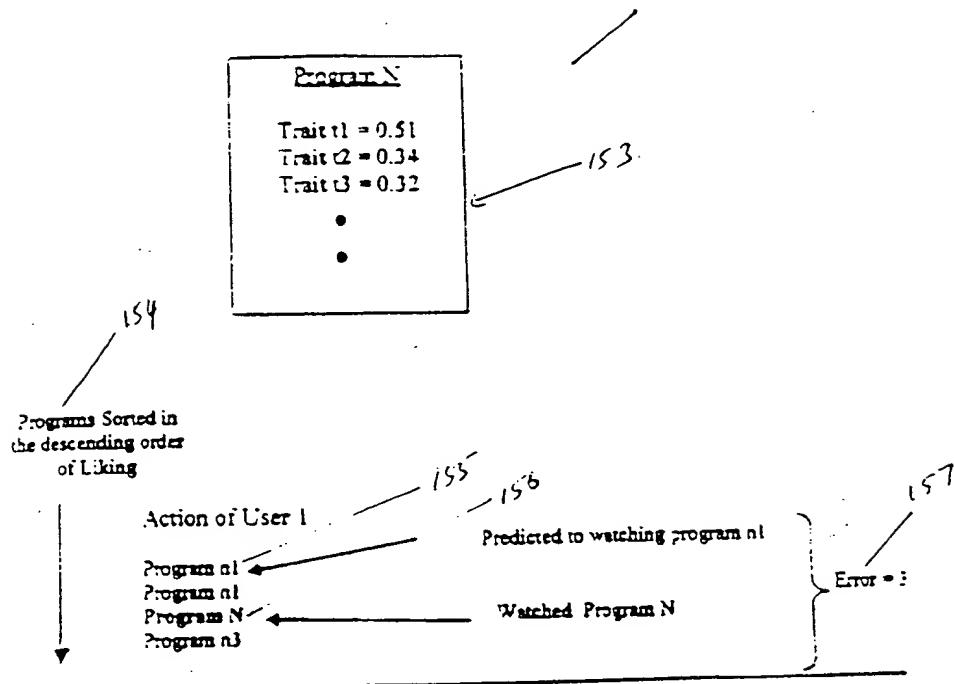


Figure 9(a)

Computing Trainess of a trait a program

30

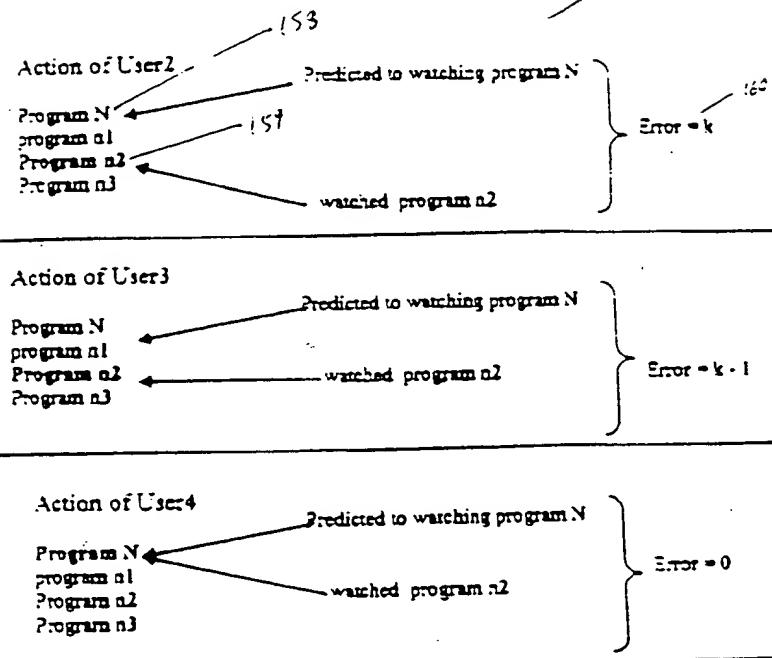
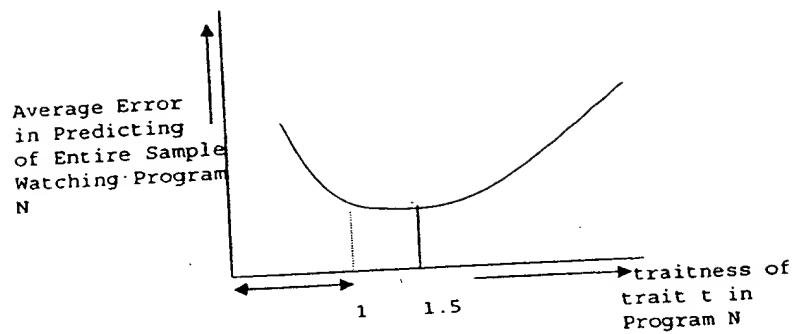


Figure 9(b)



Figure 9(c)



Optimal value of traitness

e.g. comedy-ness in Seinfeld = 1.5
comedy-ness in Frasier = 0.89



Example for Liking Distribution Record format

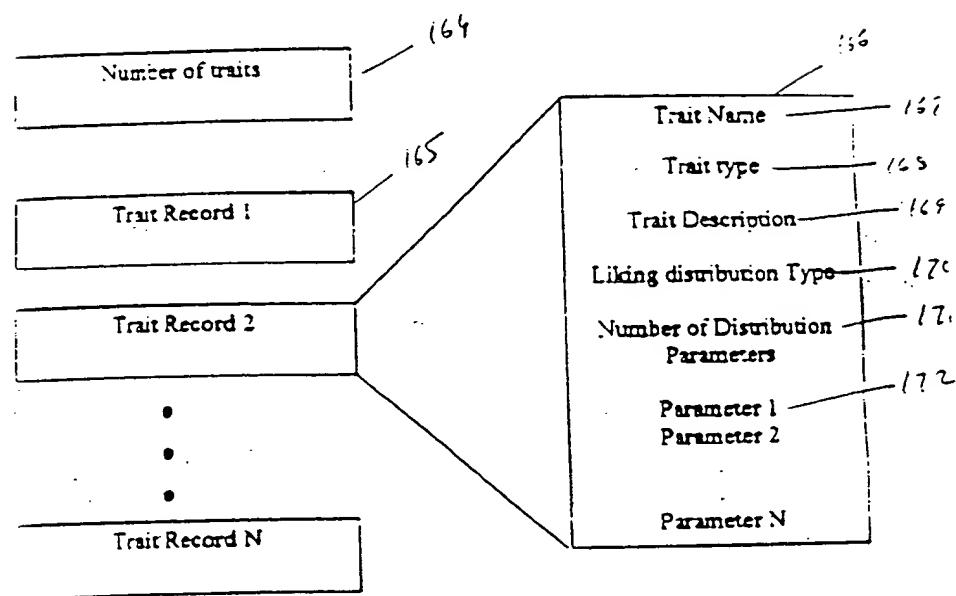


Figure 10

Some Sample Values For Fields in trait Record

<u>Trait type</u>	<u>Trait Description</u>
Static , dynamic Association Generated	(NBC, "NEWS"). SUBSTRING("CLAN") IN DESC. TITLE
<u>Distribution</u>	<u>Distribution Parameters</u>
Normal Exponential Defined type 1 Defined type 2	Mean = 13, Deviation = 2

Figure 11

Example for Traitness of recurring Programs

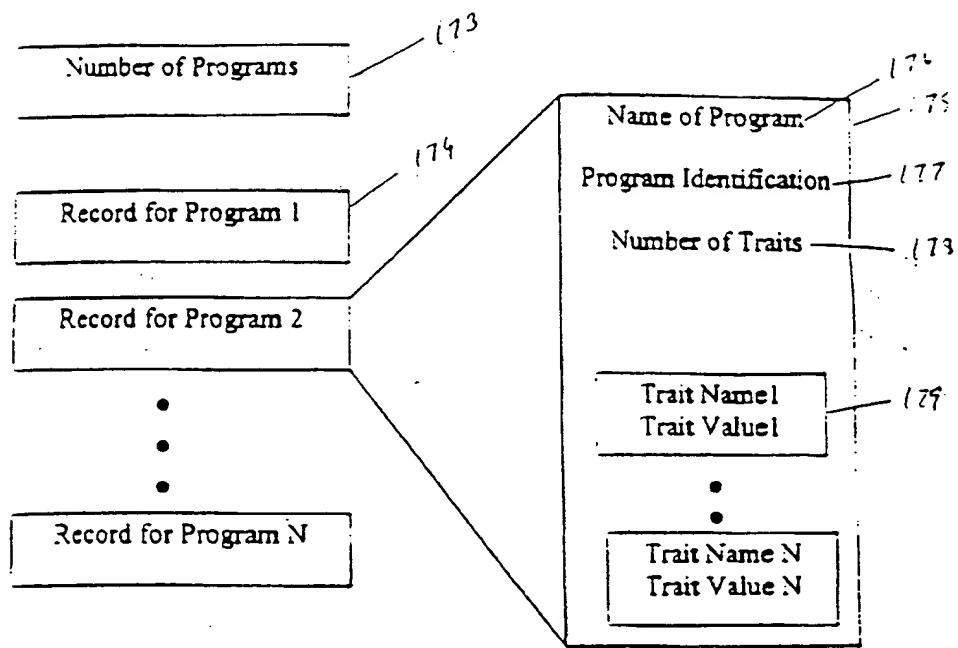


Figure 12



Example For Broadcasting traitness as a part of EPG Data

Program Info

Seinfeld,
NBC,
Comedy = 0.07
sitcom,
Dynamic trait 1 = 0.1

•
•
Actor = Seinfeld

Figure 13

Example for Selection Record

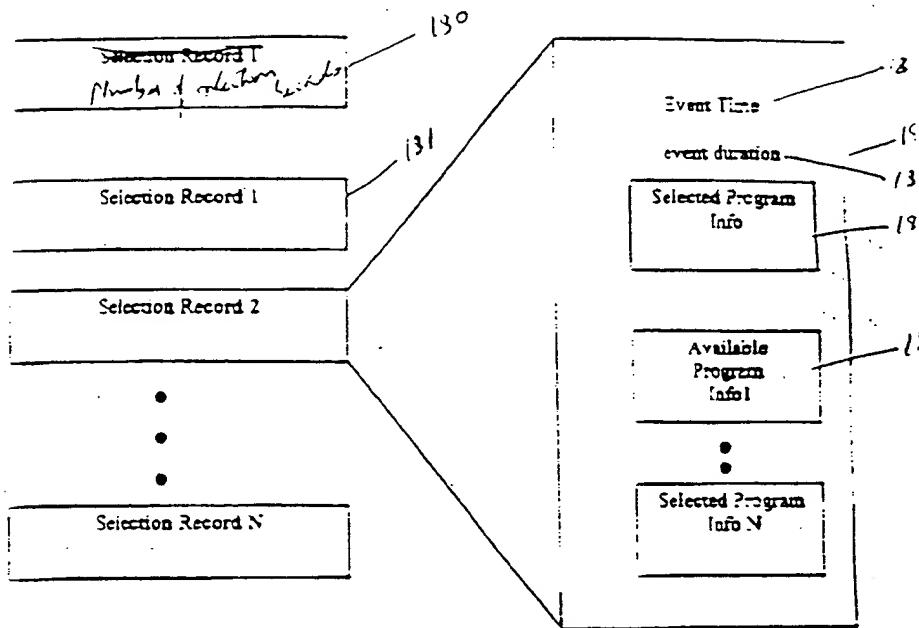


Figure 14

Generation of User Selection History

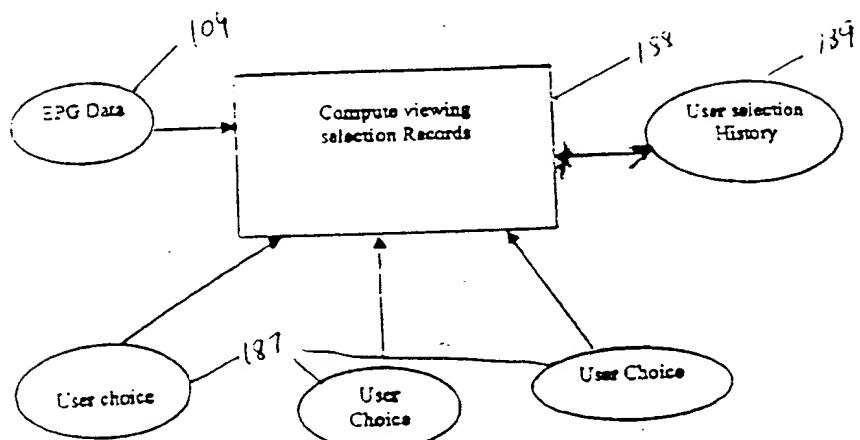


Figure 15

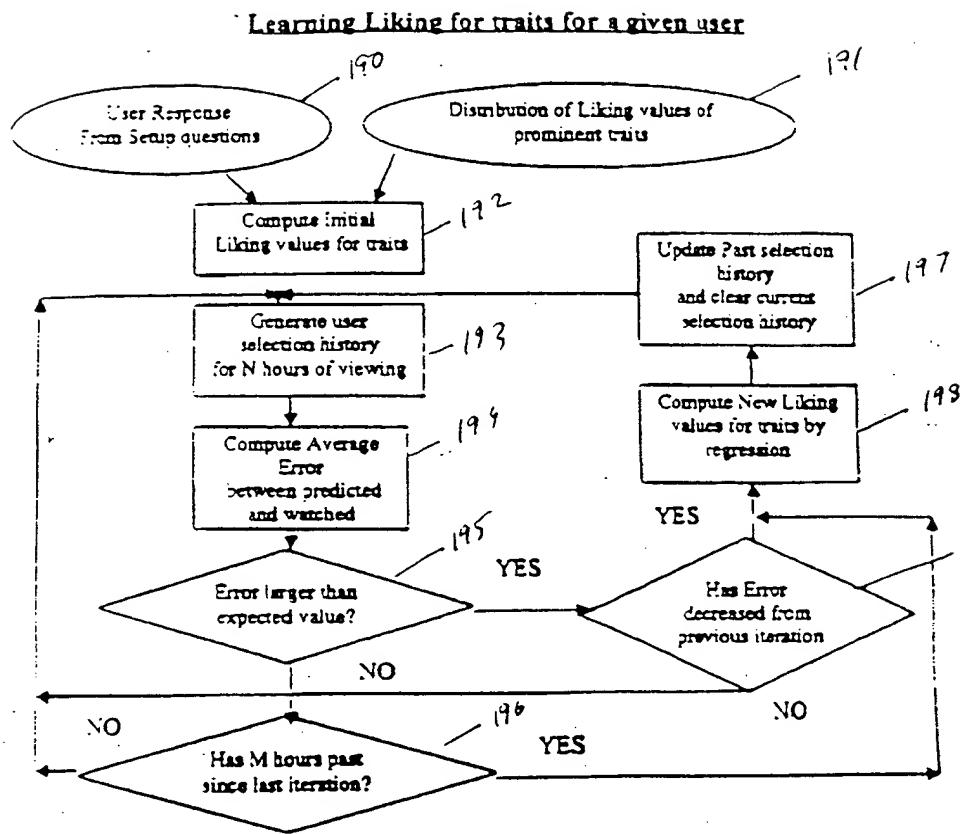


Figure 16



Computing Relevance

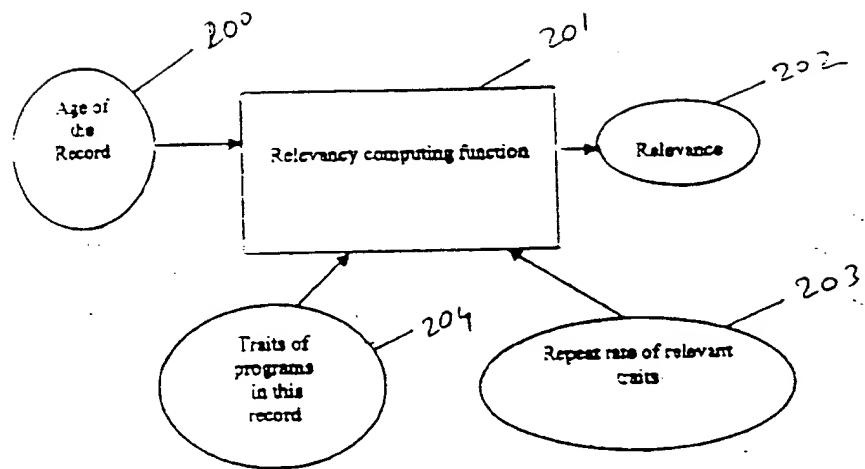


Figure 17 (a)

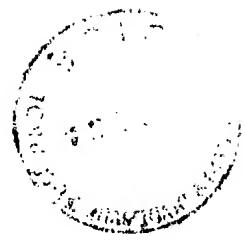


Figure 17(b)

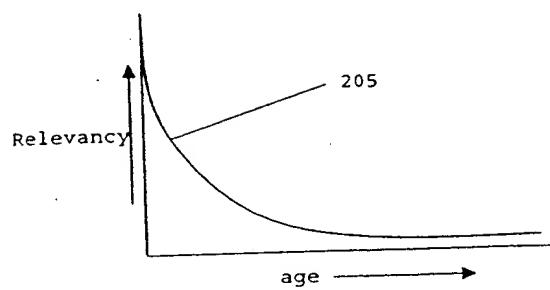
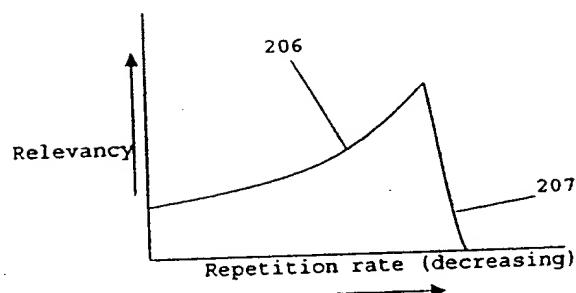


Figure 17(c)



Update of past History

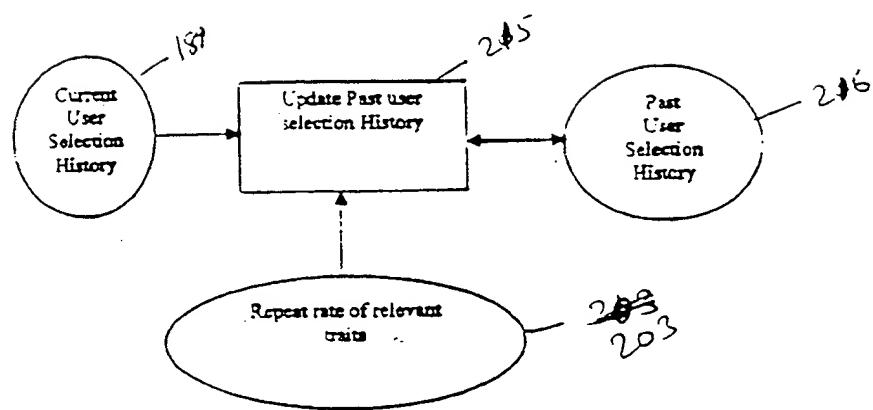


Figure 18(a)

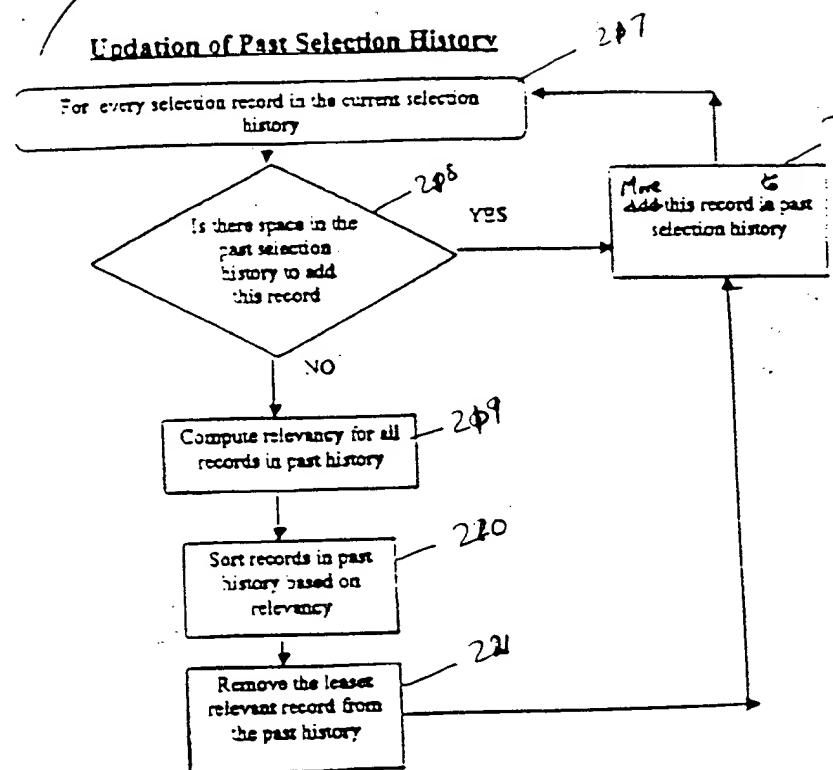


Figure 18(b)

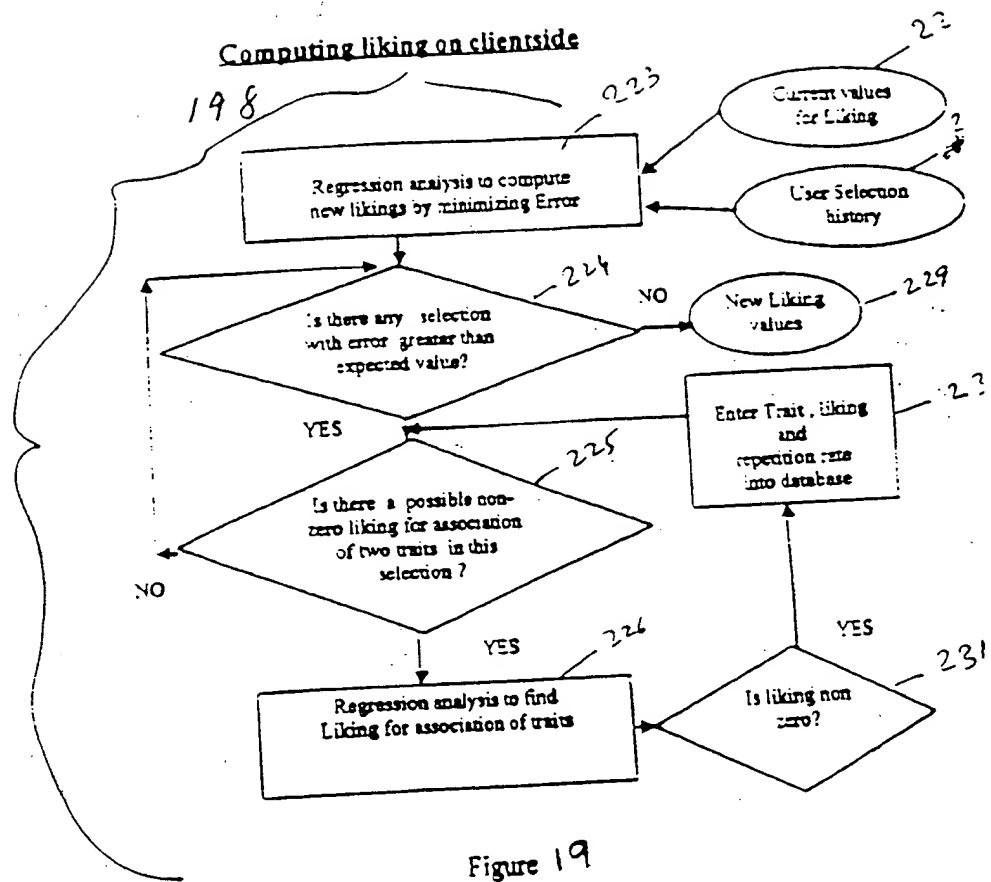


Figure 19

Computing scores for programs for future prediction

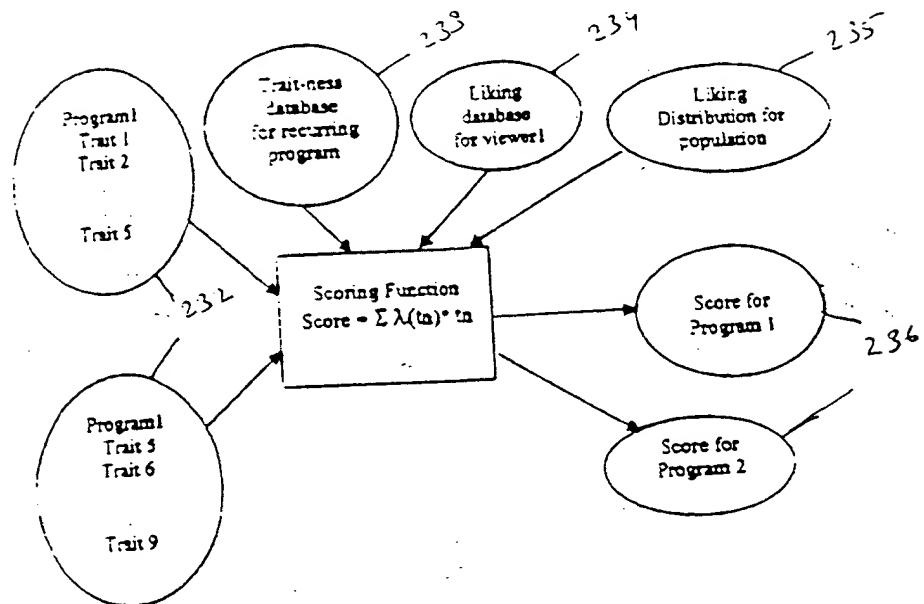
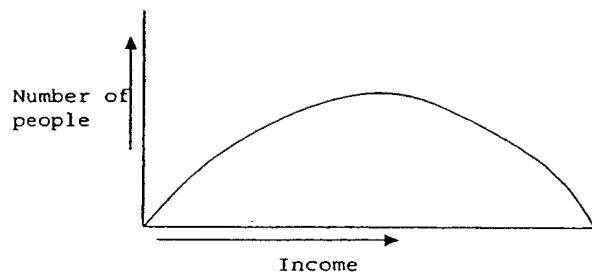
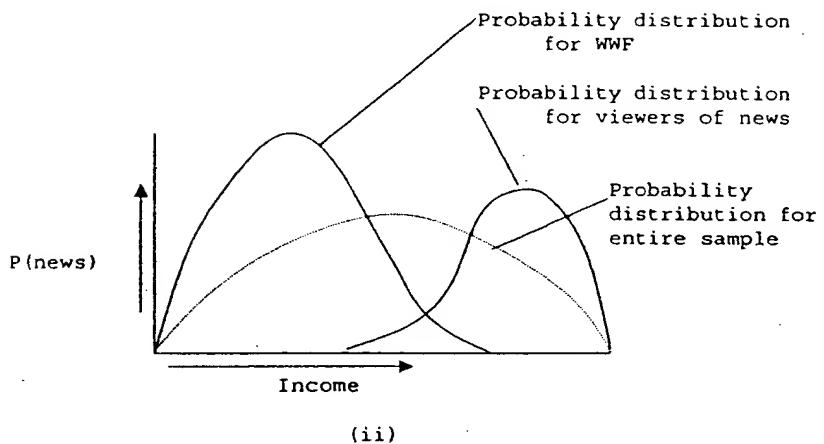


Figure 20

Figure 21 (a)



(i)



(ii)

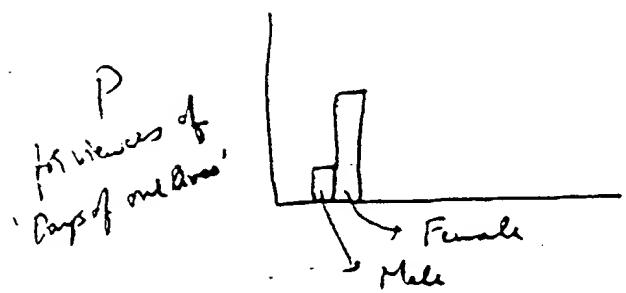
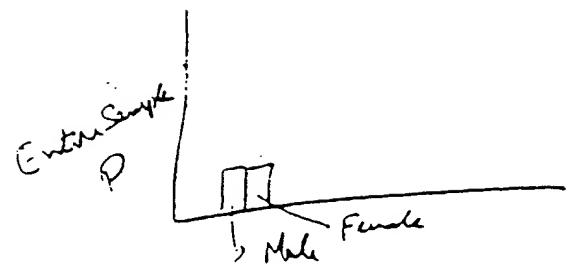


FIGURE 21b

System Architecture

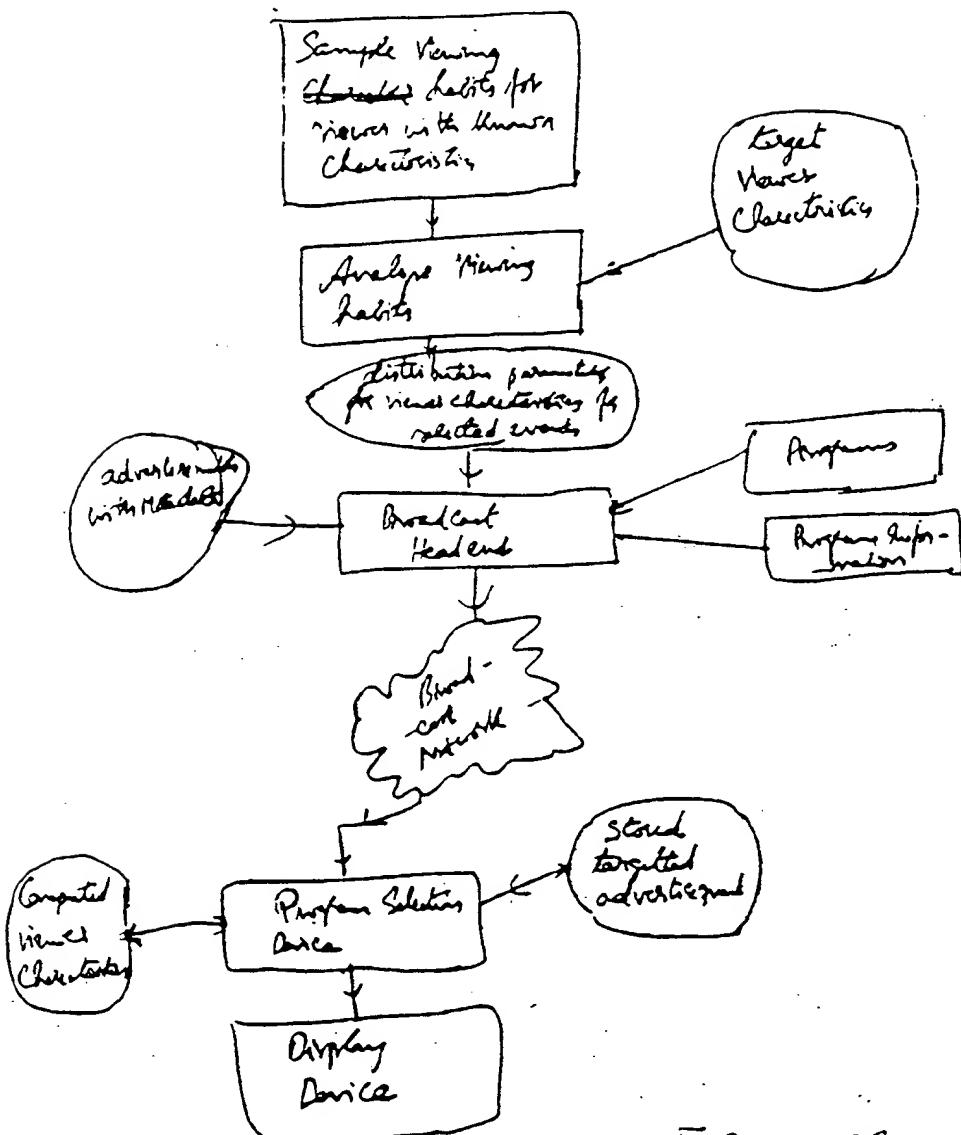


Figure 22

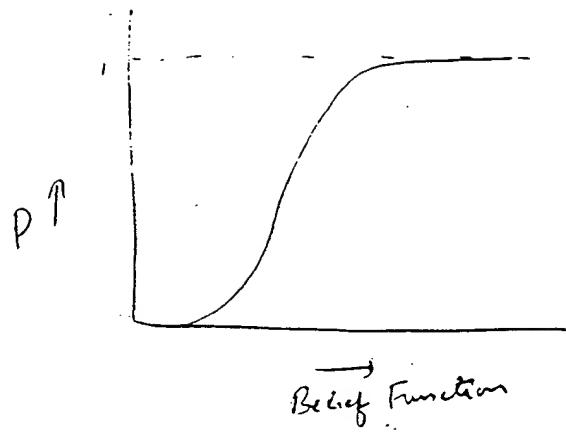


Figure 23a

Demographic Trait Record format

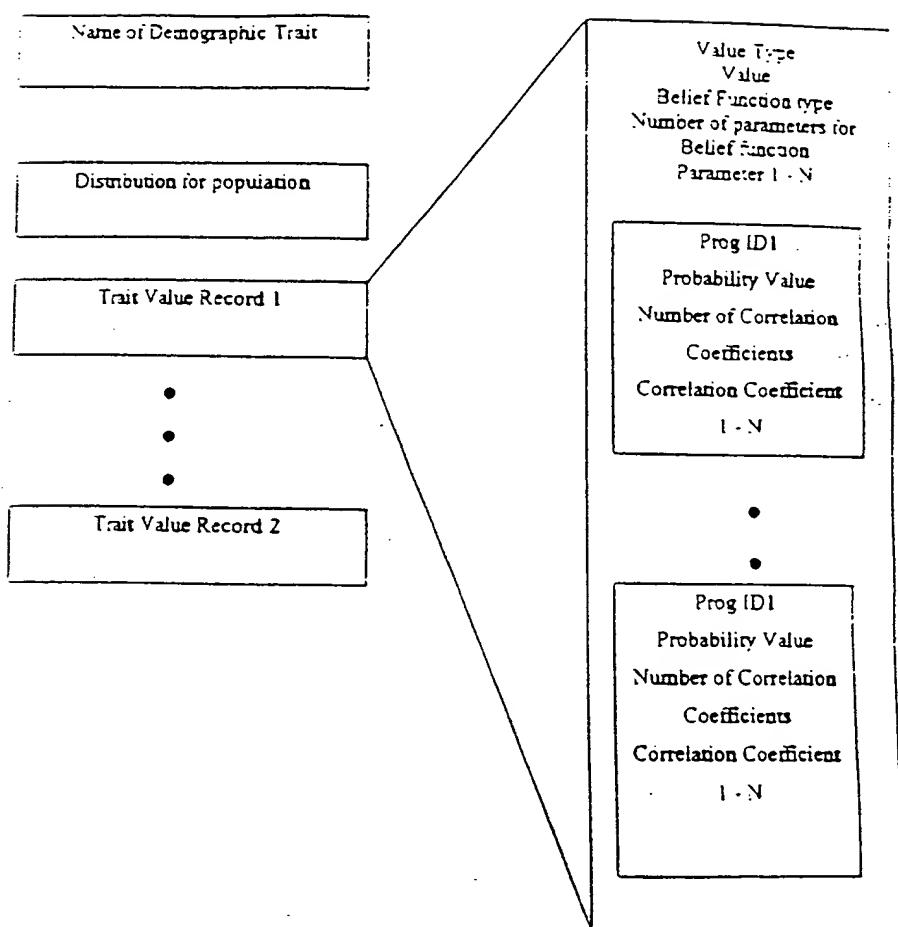


Figure 23b

Advertisement Targeting Record format

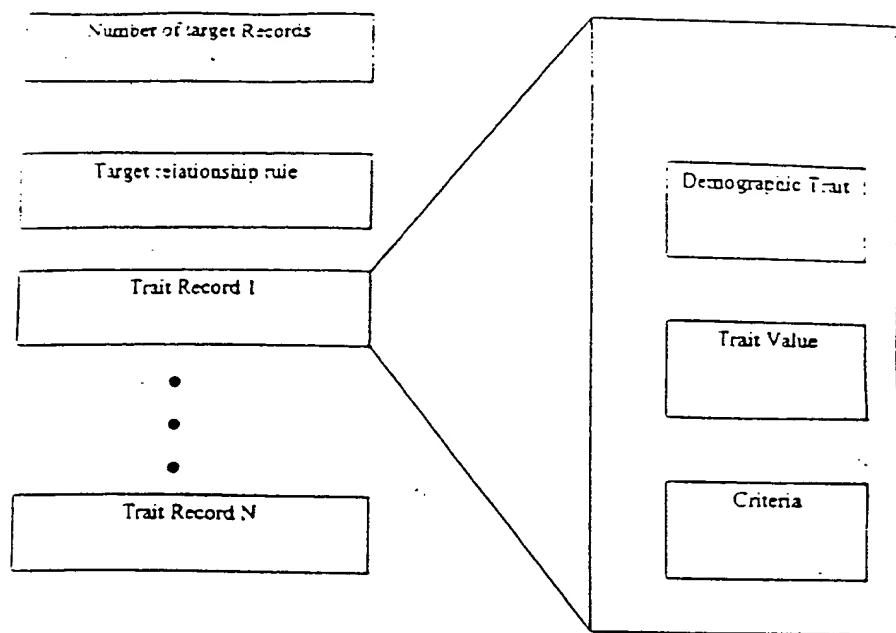


Figure 236

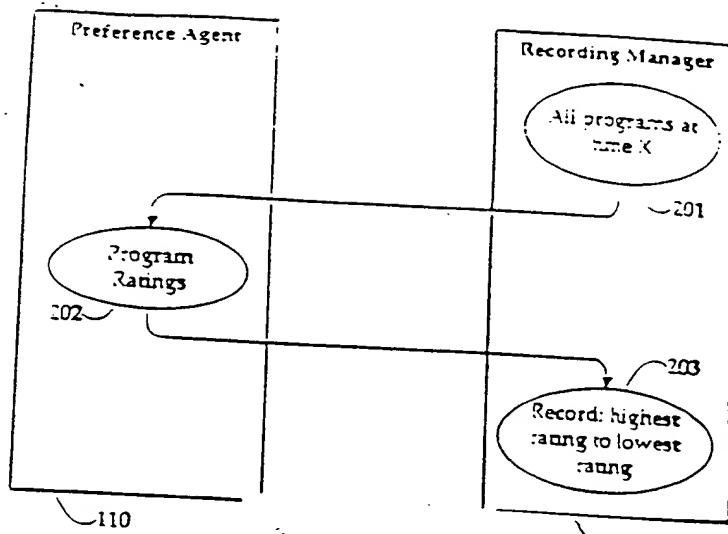


Figure 24

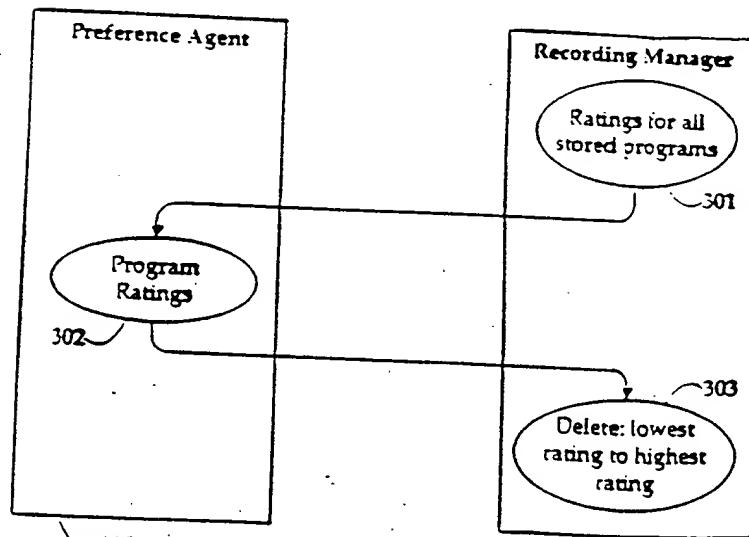


Figure 25

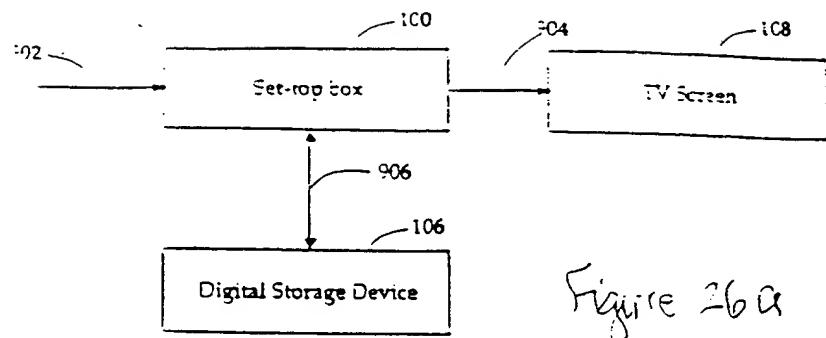


Figure 26a

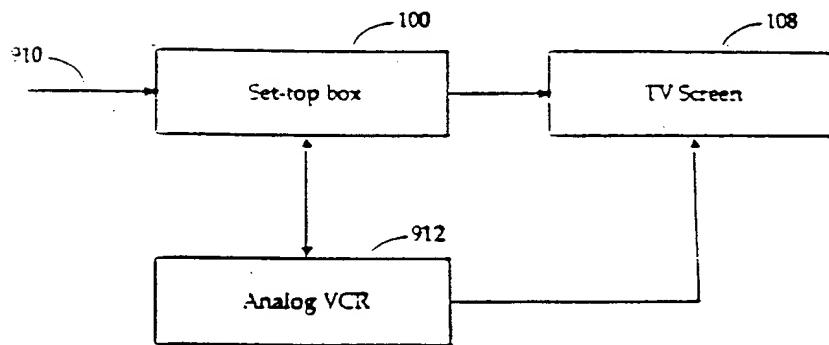


Figure 26b

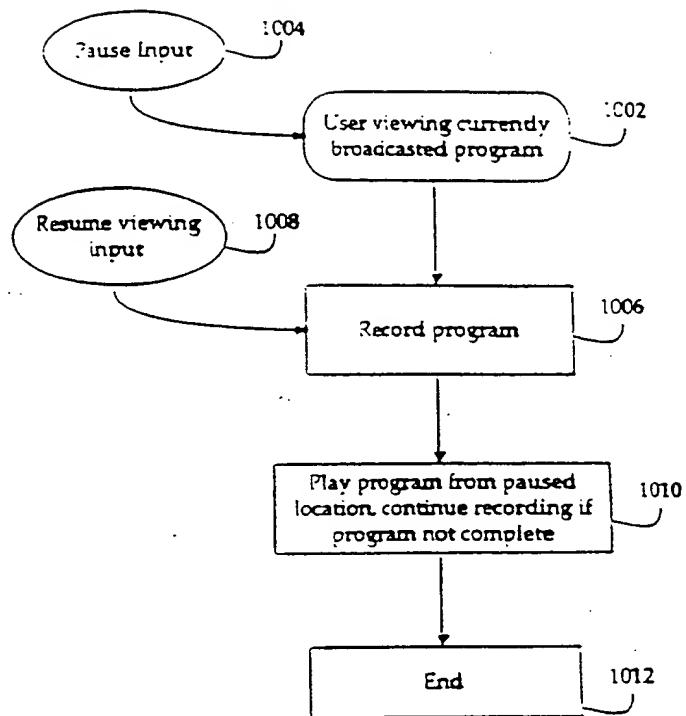


Figure 27

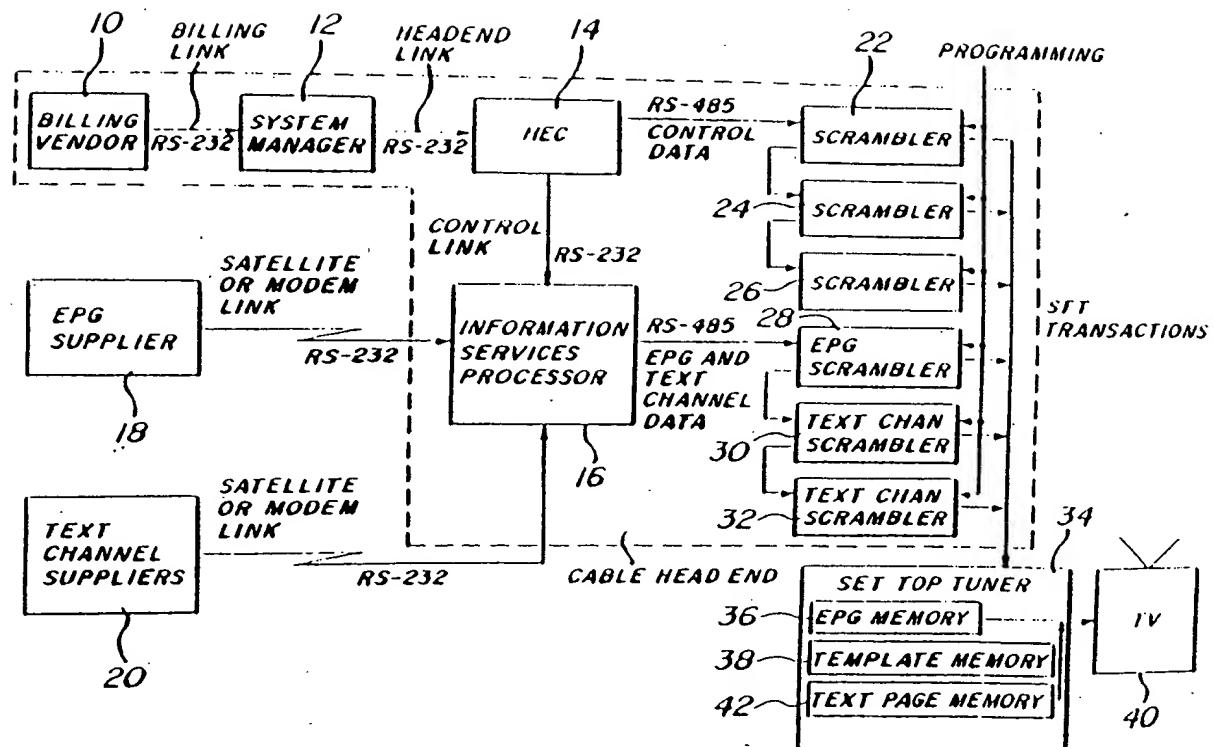


Figure 28

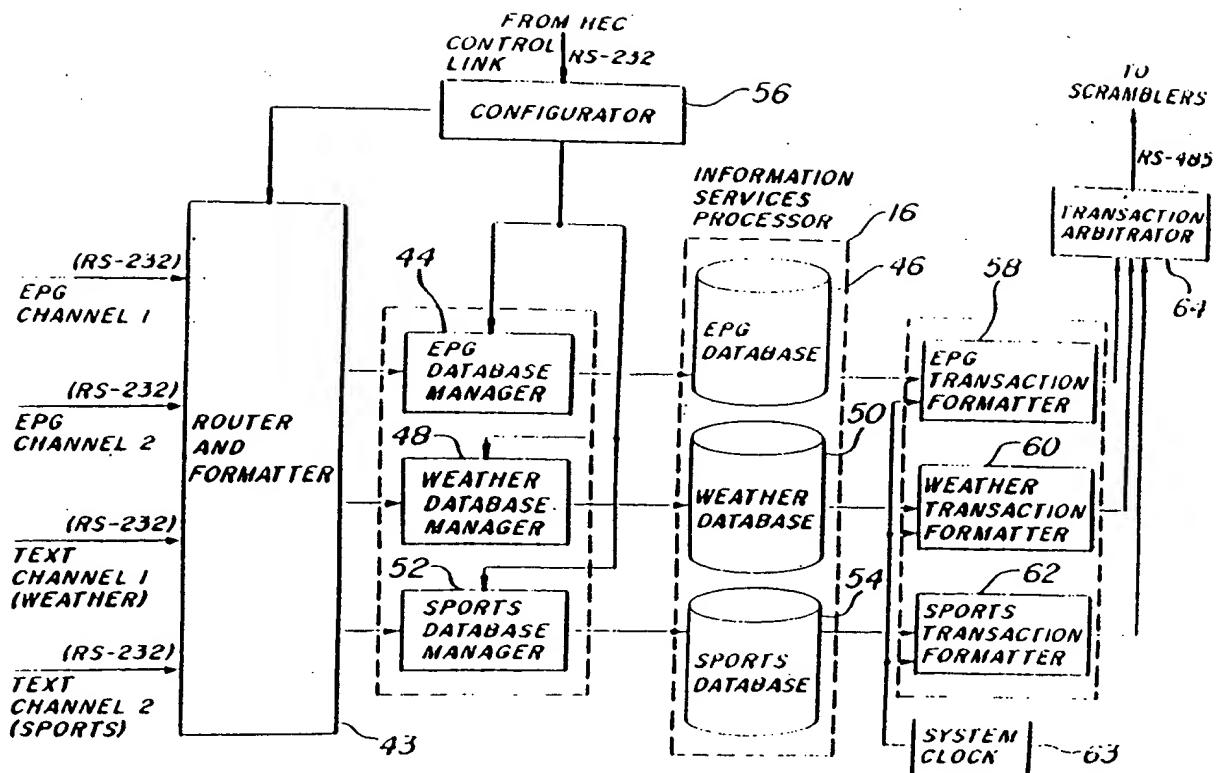


Figure 29

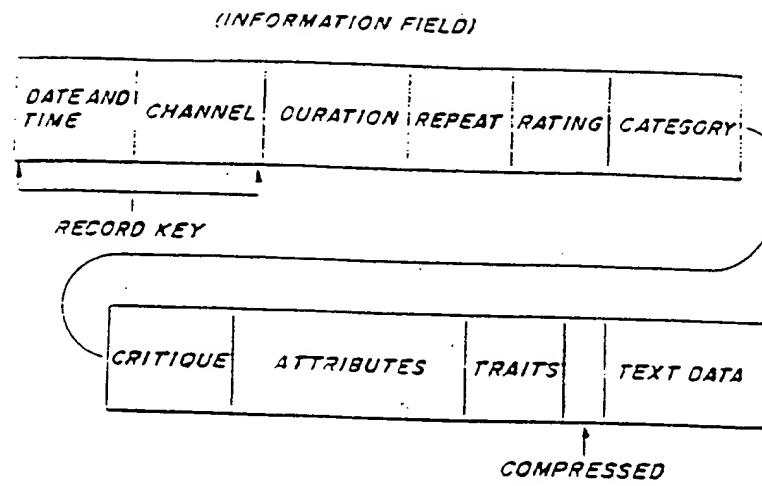


Figure 30

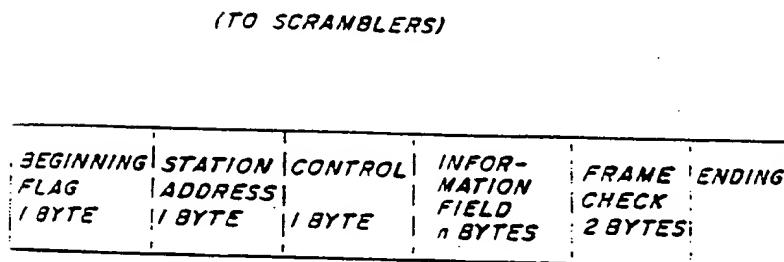


Figure 31

EPG TRANSACTION FORMATTER 58

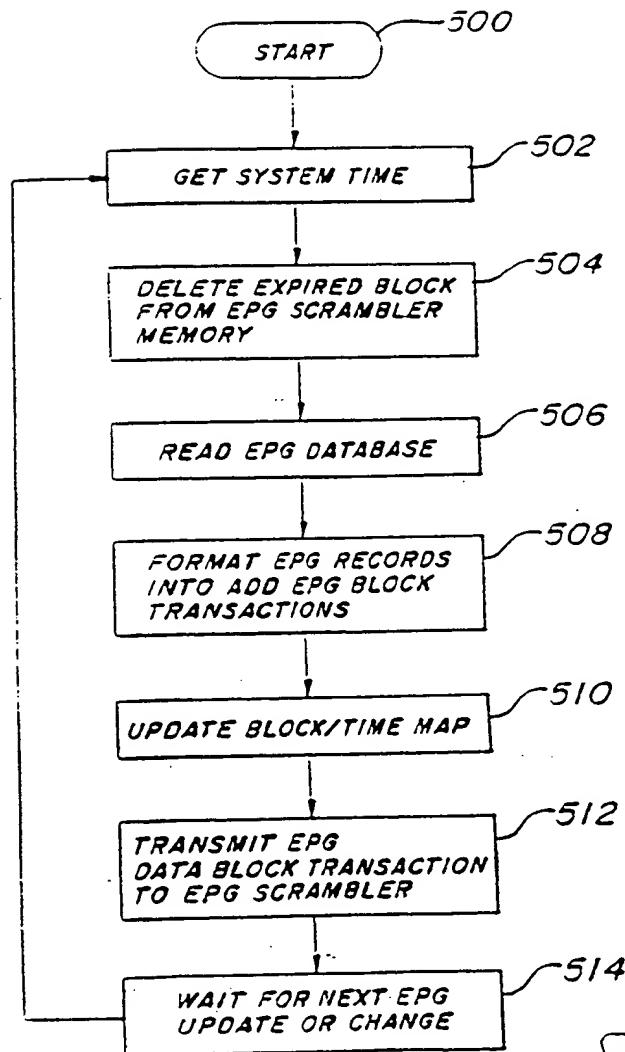


Figure 32

TEXT CHANNEL TRANSACTION FORMATTER 60,62

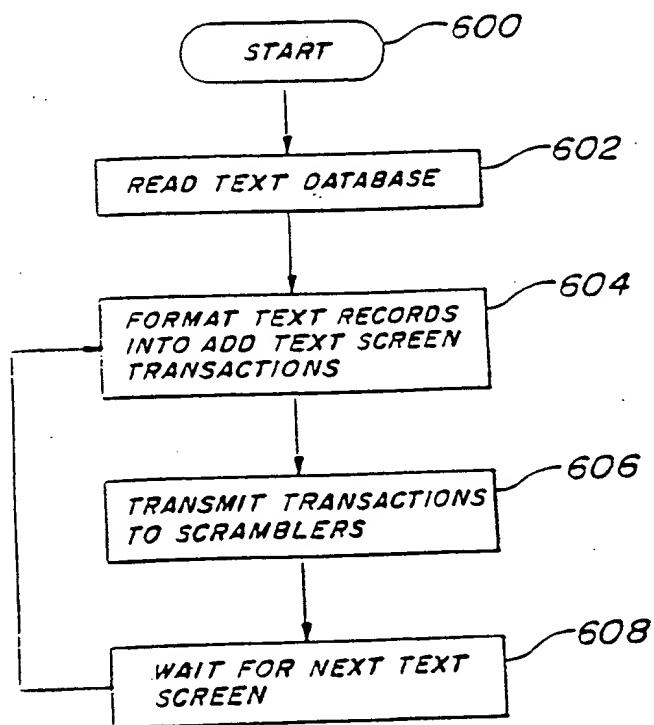


Figure 33

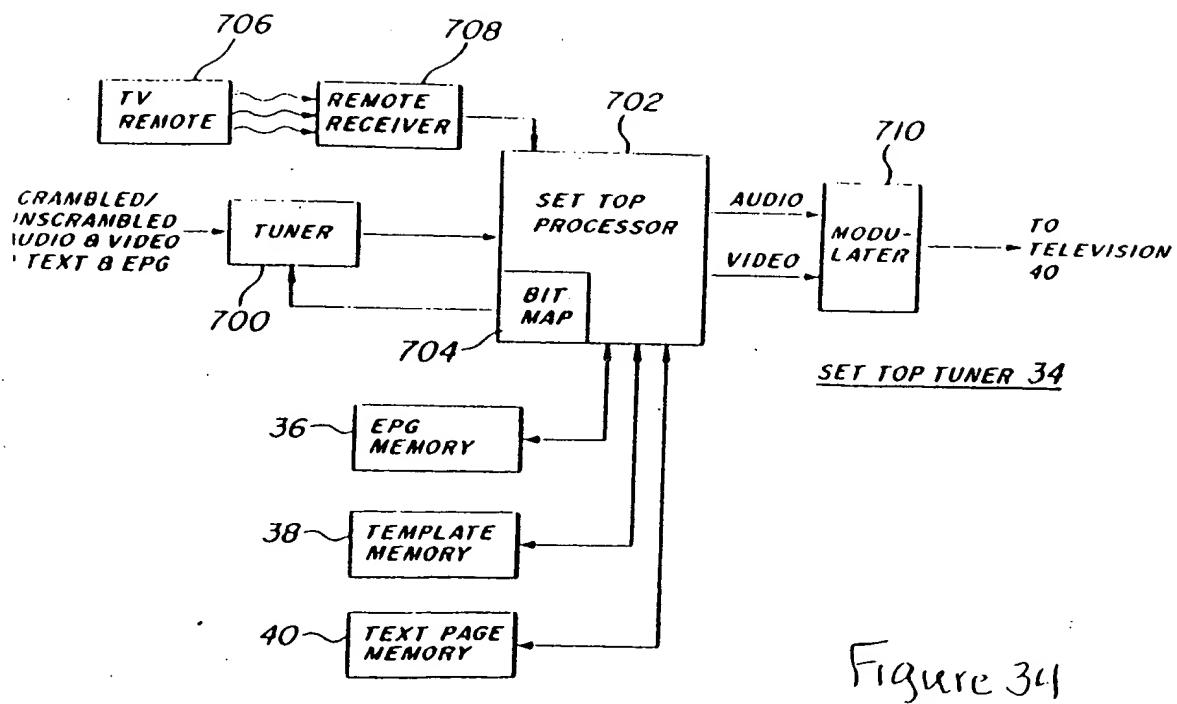


Figure 34

Process for automatically creating multiple profiles and
automatically generating appropriate active profiles

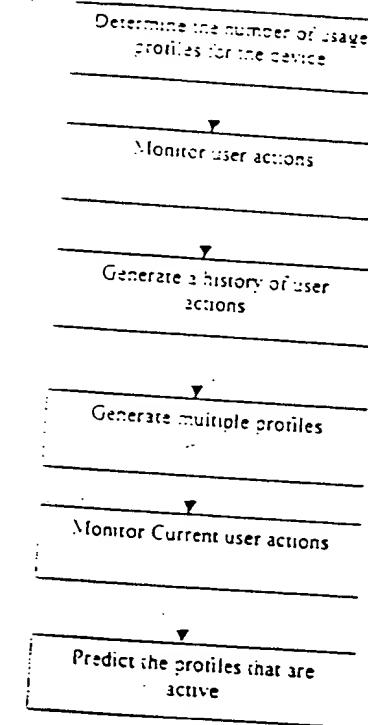


Figure 35

CIRCULAR PROGRAM GUIDE

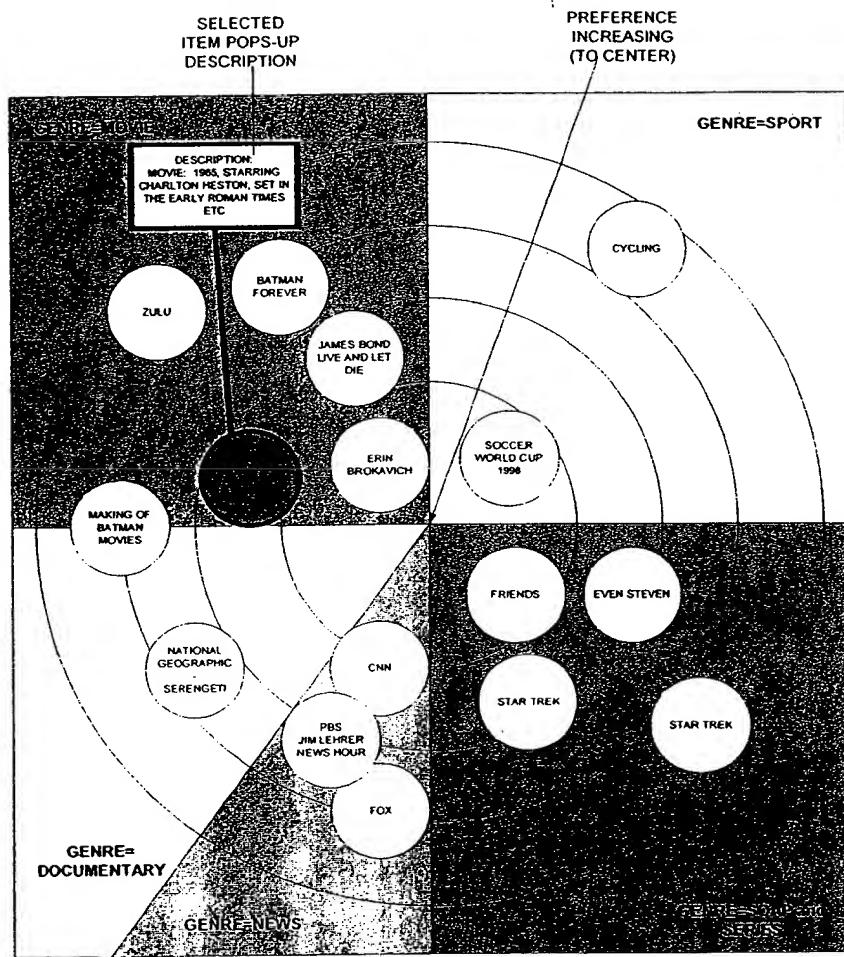


Figure 36